strated in the human growth hormone [6]. The molecular weight calculated on basis of the quantitative analysis of N-terminal amino acid gave a value of 30 600 which is in accordance with previously reported values [10] (See Fig. 1).

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On the Crystal Structure of $POCl_3 \cdot SbCl_5$

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Single crystals of $POCl_3 \cdot SbCl_5$ were prepared in capillary tubes by a method of zone melting. Rotation and Weissenberg photographs were taken around the *c*-axes with Mo-*K* and Cu-*K* radiation. The orthorhombic unit cell has the dimensions $a = 8.06 \pm 0.01$ Å, $b = 16.42 \pm 0.01$ Å and $c = 8.93 \pm 0.02$ Å. These values are in agreement with the preliminary values found earlier [1] ($a = \frac{1}{2} = 8.1$ Å, $b = 16.2$ Å and $c = 8.8$ Å). The extinctions $h0l$ for $h + l$ odd, and $hk0$ for k odd are in agreement with the centrosymmetric space-group $P\,m\,n\,b$ which has been confirmed by the structure determination. (This space group was by mistake not found in the earlier investigation [1]).

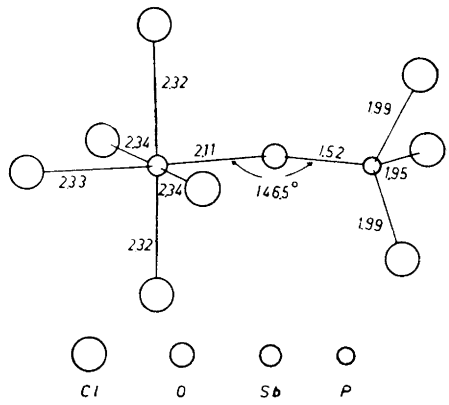

Fig. 1.

The number of molecules in the unit cell has been shown [1] to be 4.

The structure was determined from three-dimensional Patterson functions and confirmed by a three-dimensional electron density calculation. The unrefined parameters are:

4 Sb	in	$x = 0.250$	$y = 0.145$	$z = 0.079$
4 Cl	in	$x = 0.250$	$y = 0.257$	$z = 0.919$
4 Cl	in	$x = 0.250$	$y = 0.021$	$z = 0.207$
4 Cl	in	$x = 0.250$	$y = 0.226$	$z = 0.294$
8 Cl	in	$x = 0.538$	$y = 0.143$	$z = 0.070$
4 O	in	$x = 0.250$	$y = 0.073$	$z = 0.884$
4 P	in	$x = 0.250$	$y = 0.073$	$z = 0.714$
4 Cl	in	$x = 0.250$	$y = 0.464$	$z = 0.871$
8 Cl	in	$x = 0.054$	$y = 0.133$	$z = 0.633$

The shape of the $POCl_3 \cdot SbCl_5$ molecule and the interatomic distances within the molecule are given in Fig. 1. The structure is built up by the packing of such molecules. The complete structure determination will be published after refinement of the parameters.

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